

Table 221. Energy Consumption Estimates by Source, Selected Years 1960-1997, North Dakota

Year	Coal ^a Thousand Short Tons	Natural Gas ^b Billion Cubic Feet	Petroleum											Nuclear Electric Power	Hydro-electric Power ^d	Biomass ^e	Other ^{a,f}	Net Inter-state Flow of Electricity/Losses ^g	Total ^h	
			Asphalt & Road Oil ^a	Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	Kero-sene ^a	LPG ^a	Lubri-cants ^a	Motor Gasoline	Residual Fuel ^a	Other ^{a,c}	Total							Million kWh
			Thousand Barrels															Thousand Barrels		
1960	2,101	26	1,123	66	3,773	2,103	904	1,212	202	7,719	687	803	18,592	0	1,060	-	-	-3,501	-	
1965	1,719	32	795	165	5,170	2,069	52	1,154	167	8,212	868	925	19,576	0	2,497	-	-	-6,185	-	
1970	4,186	33	1,402	95	4,975	2,074	245	1,719	166	8,766	728	985	21,154	0	3,108	-	-	-14,183	-	
1975	5,100	37	1,054	85	4,446	1,855	70	1,580	158	10,044	1,089	1,071	21,453	0	4,511	-	-	-18,295	-	
1980	12,346	23	753	64	8,139	1,702	15	1,302	177	9,167	716	1,127	23,162	0	5,364	-	-	-43,747	-	
1985	22,958	28	1,047	4	7,505	1,682	15	549	162	8,822	505	871	21,161	0	4,818	-	-	-58,231	-	
1986	23,587	25	877	37	7,405	1,646	16	1,730	158	8,580	377	877	21,703	0	3,304	-	-	-54,289	-	
1987	24,101	25	884	29	6,819	1,254	8	1,773	179	8,837	355	980	21,118	0	3,365	-	-	-56,153	-	
1988	28,029	29	956	32	6,776	1,315	15	1,606	172	8,588	349	1,159	20,967	0	2,273	-	-	-67,478	-	
1989	27,401	30	924	31	7,010	1,336	11	1,747	177	8,398	297	1,172	21,103	0	NA	-	-	R -62,366	-	
1990	28,114	32	814	28	6,764	1,178	6	1,426	182	8,151	331	1,151	20,031	0	NA	-	-	R -68,895	-	
1991	28,597	40	778	28	7,413	964	10	2,025	163	8,255	306	1,008	20,950	0	NA	-	-	R -69,707	-	
1992	30,301	37	1,465	28	7,034	1,405	7	1,771	166	8,233	291	1,197	21,597	0	NA	-	-	R -74,114	-	
1993	30,302	40	915	62	7,443	1,254	10	1,369	169	8,482	399	1,124	21,227	0	NA	-	-	-75,248	-	
1994	30,363	43	1,252	43	8,338	846	7	1,316	176	8,387	343	1,175	21,884	0	NA	-	-	R -74,130	-	
1995	30,237	45	791	65	8,553	333	5	1,754	173	8,650	166	1,135	21,626	0	NA	-	-	R -72,042	-	
1996	30,511	49	911	50	8,511	246	8	1,994	168	8,683	138	1,297	22,006	0	NA	-	-	R -78,695	-	
1997	29,360	56	1,241	33	8,424	189	7	2,014	178	8,628	190	1,289	22,193	0	NA	-	-	-72,053	-	

Trillion Btu																			
1960	30.5	27.4	7.5	0.3	22.0	11.3	5.1	4.9	1.2	40.5	4.3	4.8	101.9	0.0	11.4	R 0.5	0.0	-11.9	R 159.8
1965	24.7	32.4	5.3	0.8	30.1	11.1	0.3	4.6	1.0	43.1	5.5	5.6	107.4	0.0	26.1	R 0.3	0.0	-21.1	R 169.9
1970	57.5	33.7	9.3	0.5	29.0	11.2	1.4	6.5	1.0	46.0	4.6	5.9	115.4	0.0	32.6	R 0.4	0.0	-48.4	R 191.2
1975	67.9	36.9	7.0	0.4	25.9	10.0	0.4	5.9	1.0	52.8	6.8	6.4	116.6	0.0	46.9	R 0.5	0.0	-62.4	R 206.4
1980	163.3	24.0	5.0	0.3	47.4	9.2	0.1	4.8	1.1	48.2	4.5	6.8	127.3	0.0	55.7	R 2.9	0.0	-149.3	R 224.1
1985	302.0	29.8	6.9	(s)	43.7	9.1	0.1	2.0	1.0	46.3	3.2	5.4	117.7	0.0	50.3	R 2.7	(s)	-198.7	R 303.9
1986	310.9	26.6	5.8	0.2	43.1	8.9	0.1	6.3	1.0	45.1	2.4	5.5	118.3	0.0	34.5	R 2.7	(s)	-185.2	R 307.6
1987	319.3	26.0	5.9	0.1	39.7	6.8	(s)	6.5	1.1	46.4	2.2	6.0	114.8	0.0	35.1	R 2.3	(s)	-191.6	R 305.9
1988	369.8	30.2	6.3	0.2	39.5	7.1	0.1	5.9	1.0	45.1	2.2	7.0	114.4	0.0	23.5	R 2.4	0.0	-230.2	R 310.0
1989	361.7	31.6	6.1	0.2	40.8	7.2	0.1	6.4	1.1	44.1	1.9	7.1	115.0	0.0	R 19.8	R 2.9	R 0.1	-212.8	R 318.4
1990	374.6	33.5	5.4	0.1	39.4	6.4	(s)	5.2	1.1	42.8	2.1	6.9	109.5	0.0	24.3	2.1	R 0.1	-235.1	R 308.9
1991	379.2	41.6	5.2	0.1	43.2	5.2	0.1	7.3	1.0	43.4	1.9	6.1	113.5	0.0	25.3	2.1	R 0.1	-237.8	R 321.4
1992	399.1	38.2	9.7	0.1	41.0	7.6	(s)	6.4	1.0	43.3	1.8	7.2	118.2	0.0	23.4	2.3	R 0.1	-252.9	R 329.2
1993	399.7	42.4	6.1	0.3	43.4	6.8	0.1	4.9	1.0	44.6	2.5	6.8	116.4	0.0	29.0	2.1	R 0.1	-256.7	R 332.8
1994	402.4	45.3	8.3	0.2	48.6	4.6	(s)	4.8	1.1	44.1	2.2	7.1	120.9	0.0	24.3	2.3	R 0.1	-252.9	R 344.3
1995	399.8	47.6	5.2	0.3	49.8	1.9	(s)	6.4	1.1	45.4	1.0	6.9	118.0	0.0	28.5	2.5	R 0.1	-245.8	R 351.4
1996	404.1	51.5	6.0	0.3	49.6	1.4	(s)	7.2	1.0	45.6	0.9	7.8	119.8	0.0	40.8	2.3	R 0.2	-268.5	R 352.1
1997	386.5	58.9	8.2	0.2	49.1	1.1	(s)	7.3	1.1	45.3	1.2	7.7	121.2	0.0	35.3	1.8	0.2	-245.8	355.8

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.

^e "Biomass" is wood, waste, and ethanol. Ethanol blended into motor gasoline is included in motor gasoline and total petroleum. It is also included in the biomass series to give complete biomass data, but it is counted only once in the energy total.

^f "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^g Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number

indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

^h From 1989, "Total" does not equal the sum of the columns. Ethanol (which is shown in the transportation sector table) is included in both motor gasoline and biomass data in this table but only once in the total. Net imports of electricity generated from nonrenewable energy sources (shown in appendix Table A8) is included in the total in this table but not in any other columns.

ⁱ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

kWh=kilowatt-hours. R=Revised data. - =Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 222. Residential Energy Consumption Estimates, Selected Years 1960-1997, North Dakota

Year	Coal			Natural Gas ^b	Petroleum				Wood	Geothermal	Solar ^c	Electricity ^a	Net Energy	Electrical System Energy Losses ^d	Total
	Bituminous Coal and Lignite ^a	Anthracite ^a	Total		Distillate Fuel ^a	Kerosene ^a	LPG ^a	Total						Million Kilowatthours	
	Thousand Short Tons				Billion Cubic Feet	Thousand Barrels						Thousand Cords	Million Kilowatthours	Net Energy	
1960	195	0	195	4	874	860	787	2,521	R 23	-	-	728	-	1,810	-
1965	108	0	108	7	1,269	40	758	2,067	R 16	-	-	911	-	2,176	-
1970	50	0	50	8	1,103	190	1,283	2,576	R 19	-	-	1,399	-	3,391	-
1975	53	0	53	10	776	21	1,181	1,978	R 22	-	-	1,901	-	4,584	-
1980	50	0	50	10	1,173	5	511	1,689	R 143	-	-	2,456	-	5,972	-
1985	69	0	69	10	1,119	14	169	1,302	R 137	-	-	3,012	-	7,075	-
1986	62	0	62	9	1,056	8	623	1,687	R 133	-	-	2,954	-	6,795	-
1987	36	0	36	8	895	6	637	1,538	R 117	-	-	2,788	-	6,370	-
1988	49	(s)	49	9	965	8	751	1,724	R 121	-	-	3,050	-	6,896	-
1989	61	(s)	61	10	913	10	838	1,761	R 126	-	-	3,060	-	R 6,876	-
1990	47	0	47	9	845	5	653	1,502	R 84	-	-	2,954	-	6,461	-
1991	47	(s)	47	10	902	7	976	1,885	R 89	-	-	3,096	-	R 6,740	-
1992	42	0	42	10	642	6	1,081	1,729	R 93	-	-	3,020	-	6,451	-
1993	48	0	48	11	751	8	762	1,521	R 77	-	-	3,209	-	6,780	-
1994	49	0	49	11	733	6	693	1,432	R 75	-	-	3,243	-	R 6,767	-
1995	38	0	38	11	775	4	775	1,553	R 84	-	-	3,384	-	R 7,049	-
1996	51	2	52	13	829	5	922	1,756	R 84	-	-	3,602	-	7,496	-
1997	49	0	49	11	638	5	922	1,565	R 61	-	-	3,437	-	7,138	-

Trillion Btu

1960	3.0	0.0	3.0	4.0	5.1	4.9	3.2	13.1	R 0.5	0.0	0.0	2.5	R 23.1	6.2	R 29.2
1965	1.7	0.0	1.7	6.6	7.4	0.2	3.0	10.7	R 0.3	0.0	0.0	3.1	R 22.4	7.4	R 29.8
1970	0.7	0.0	0.7	8.4	6.4	1.1	4.8	12.4	R 0.4	0.0	0.0	4.8	R 26.7	11.6	R 38.3
1975	0.7	0.0	0.7	10.2	4.5	0.1	4.4	9.0	R 0.4	0.0	0.0	6.5	R 26.9	15.6	R 42.5
1980	0.7	0.0	0.7	10.1	6.8	(s)	1.9	8.7	R 2.9	0.0	0.0	8.4	R 30.8	20.4	R 51.2
1985	0.9	0.0	0.9	11.0	6.5	0.1	0.6	7.2	R 2.7	0.0	0.0	10.3	R 32.1	24.1	R 56.3
1986	0.8	0.0	0.8	9.8	6.2	(s)	2.3	8.5	R 2.7	0.0	0.0	10.1	R 31.8	23.2	R 54.9
1987	0.5	0.0	0.5	8.5	5.2	(s)	2.3	7.6	R 2.3	0.0	0.0	9.5	R 28.4	21.7	R 50.1
1988	0.6	(s)	0.6	9.7	5.6	(s)	2.7	8.4	R 2.4	0.0	0.0	10.4	R 31.5	23.5	R 55.1
1989	0.8	(s)	0.8	10.3	5.3	0.1	3.1	8.5	R 2.5	e 0.1	R e (s)	10.4	R e 32.6	23.5	R e 56.1
1990	0.7	0.0	0.7	9.5	4.9	(s)	2.4	7.3	R 1.7	0.1	(s)	10.1	R 29.3	22.0	R 51.3
1991	0.7	(s)	0.7	10.8	5.3	(s)	3.5	8.8	R 1.8	0.1	(s)	10.6	R 32.7	23.0	R 55.7
1992	0.6	0.0	0.6	10.1	3.7	(s)	3.9	7.7	R 1.9	0.1	(s)	10.3	R 30.7	22.0	R 52.7
1993	0.7	0.0	0.7	11.4	4.4	(s)	2.7	7.2	R 1.5	0.1	(s)	10.9	R 31.8	23.1	R 54.9
1994	0.7	0.0	0.7	11.3	4.3	(s)	2.5	6.8	R 1.5	0.1	(s)	11.1	R 31.5	23.1	R 54.6
1995	0.6	0.0	0.6	11.8	4.5	(s)	2.8	7.3	R 1.7	0.1	(s)	11.5	R 33.0	R 24.1	R 57.1
1996	0.7	(s)	0.8	13.2	4.8	(s)	3.3	8.2	R 1.7	0.1	(s)	12.3	R 36.3	25.6	R 61.8
1997	0.7	0.0	0.7	11.9	3.7	(s)	3.3	7.1	R 1.2	0.1	(s)	11.7	R 32.8	24.4	R 57.1

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

- =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 223. Commercial Energy Consumption Estimates, Selected Years 1960-1997, North Dakota

Year	Coal			Natural Gas ^b	Petroleum						Wood	Geothermal	Electricity ^a	Net Energy	Electrical System Energy Losses ^c	Total ^d		
	Bituminous Coal and Lignite ^a	Anthracite ^a	Total		Distillate Fuel ^a	Kerosene ^a	LPG ^a	Motor Gasoline	Residual Fuel ^a	Total							Thousand Cords	Million Kilowatthours
	Thousand Short Tons				Billion Cubic Feet	Thousand Barrels									Thousand Cords		Million Kilowatthours	Net Energy
1960	362	0	362	3	198	0	139	32	73	442	R (s)	-	304	-	757	-		
1965	201	0	201	5	288	0	134	179	209	809	R (s)	-	443	-	1,058	-		
1970	93	0	93	8	250	0	226	151	104	731	R (s)	-	696	-	1,686	-		
1975	99	0	99	12	176	0	208	95	493	972	R (s)	-	805	-	1,942	-		
1980	93	0	93	11	642	0	90	73	400	1,206	R 3	-	1,145	-	2,784	-		
1985	128	0	128	10	484	(s)	30	69	64	647	NA	-	2,026	-	4,760	-		
1986	114	0	114	9	314	(s)	110	71	78	573	NA	-	2,005	-	4,611	-		
1987	67	0	67	8	242	1	112	73	33	462	NA	-	1,970	-	4,502	-		
1988	90	(s)	90	10	154	1	133	73	46	407	NA	-	1,987	-	4,491	-		
1989	114	(s)	114	11	186	1	148	61	27	423	NA	-	1,989	-	R 4,468	-		
1990	88	0	88	10	151	(s)	115	70	23	359	NA	-	2,300	-	5,031	-		
1991	88	(s)	88	11	160	1	172	44	8	384	NA	-	2,397	-	R 5,218	-		
1992	79	0	79	10	157	(s)	191	37	12	397	NA	-	2,273	-	4,855	-		
1993	89	0	89	11	143	1	134	10	16	305	R 6	-	2,318	-	4,898	-		
1994	90	0	90	11	192	1	122	10	15	340	R 6	-	2,427	-	R 5,064	-		
1995	71	0	71	12	160	1	137	10	19	327	R 6	-	2,728	-	R 5,683	-		
1996	94	1	95	12	211	2	163	10	6	392	R 7	-	2,877	-	5,988	-		
1997	91	0	91	11	273	1	163	10	9	455	6	-	2,769	-	5,751	-		

Trillion Btu																
1960	5.6	0.0	5.6	2.9	1.2	0.0	0.6	0.2	0.5	2.3	(s)	0.0	1.0	R 12.0	2.6	14.5
1965	3.1	0.0	3.1	5.0	1.7	0.0	0.5	0.9	1.3	4.5	(s)	0.0	1.5	14.1	3.6	17.7
1970	1.4	0.0	1.4	8.6	1.5	0.0	0.9	0.8	0.7	3.8	(s)	0.0	2.4	16.1	5.8	21.8
1975	1.4	0.0	1.4	12.4	1.0	0.0	0.8	0.5	3.1	5.4	(s)	0.0	2.7	21.9	6.6	28.6
1980	1.2	0.0	1.2	11.6	3.7	0.0	0.3	0.4	2.5	7.0	R 0.1	0.0	3.9	R 23.8	9.5	R 33.3
1985	1.7	0.0	1.7	10.7	2.8	(s)	0.1	0.4	0.4	3.7	NA	0.0	6.9	23.0	16.2	39.3
1986	1.5	0.0	1.5	9.5	1.8	(s)	0.4	0.4	0.5	3.1	NA	0.0	6.8	20.9	15.7	36.6
1987	0.9	0.0	0.9	8.3	1.4	(s)	0.4	0.4	0.2	2.4	NA	0.0	6.7	18.3	15.4	33.7
1988	1.2	(s)	1.2	10.4	0.9	(s)	0.5	0.4	0.3	2.1	NA	0.0	6.8	20.4	15.3	35.7
1989	1.5	(s)	1.5	11.1	1.1	(s)	0.5	0.3	0.2	2.1	NA	^e (s)	6.8	21.5	15.2	36.8
1990	1.2	0.0	1.2	10.6	0.9	(s)	0.4	0.4	0.1	1.8	NA	(s)	7.8	R 21.5	17.2	38.6
1991	1.2	(s)	1.2	11.2	0.9	(s)	0.6	0.2	(s)	1.8	NA	(s)	8.2	22.5	17.8	40.3
1992	1.1	0.0	1.1	10.2	0.9	(s)	0.7	0.2	0.1	1.9	NA	(s)	7.8	21.0	16.6	R 37.6
1993	1.3	0.0	1.3	11.3	0.8	(s)	0.5	0.1	0.1	1.5	0.1	(s)	7.9	22.1	16.7	R 38.9
1994	1.3	0.0	1.3	11.4	1.1	(s)	0.4	0.1	0.1	1.7	0.1	0.1	8.3	22.9	17.3	R 40.2
1995	1.1	0.0	1.1	12.2	0.9	(s)	0.5	0.1	0.1	1.6	0.1	0.1	9.3	R 24.4	19.4	R 43.8
1996	1.4	(s)	1.4	12.8	1.2	(s)	0.6	0.1	(s)	1.9	0.1	0.1	9.8	R 26.1	20.4	R 46.6
1997	1.4	0.0	1.4	11.4	1.6	(s)	0.6	0.1	0.1	2.3	0.1	0.1	9.4	24.7	19.6	44.3

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^d Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

- =Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 224. Industrial Energy Consumption Estimates, Selected Years 1960-1997, North Dakota

Year	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Petroleum									Hydro-electric Power ^b Million kWh	Wood and Waste	Other ^{b,d}	Electricity ^b		Electrical System Energy Losses ^e Million kWh	Total
			Asphalt and Road Oil ^b	Distillate Fuel ^b	Kero-sene ^b	LPG ^b	Lubri-cants ^b	Motor Gasoline	Residual Fuel ^b	Other ^{b,c}	Total				Million kWh	Net Energy		
			Thousand Barrels															
1960	521	20	1,123	2,104	44	257	44	2,927	530	803	7,832	0	-	-	121	-	300	-
1965	444	21	795	2,696	12	240	20	2,533	632	925	7,853	0	-	-	241	-	576	-
1970	523	16	1,402	2,174	55	206	28	2,315	558	985	7,723	0	-	-	720	-	1,745	-
1975	570	14	1,054	1,613	49	189	21	2,193	577	1,071	6,767	0	-	-	1,007	-	2,428	-
1980	585	2	753	2,460	10	690	26	1,540	315	1,127	6,921	0	-	-	1,576	-	3,832	-
1985	5,407	7	1,047	2,783	1	340	24	1,080	440	871	6,586	0	-	-	1,988	-	4,672	-
1986	6,120	7	877	3,084	8	973	23	924	297	877	7,065	0	-	-	1,890	-	4,348	-
1987	6,563	8	884	2,574	1	1,010	26	1,028	322	980	6,825	0	-	-	1,839	-	4,202	-
1988	6,204	8	956	2,466	6	706	25	896	303	1,159	6,516	0	-	-	2,070	-	4,680	-
1989	6,688	8	924	2,782	1	743	26	819	269	1,172	6,737	^f NA	-	-	2,013	-	^R 4,522	-
1990	6,400	11	814	2,596	1	644	27	799	308	1,151	6,339	NA	-	-	1,760	-	3,849	-
1991	6,287	17	778	3,063	2	862	24	784	298	1,008	6,820	NA	-	-	1,762	-	^R 3,836	-
1992	6,988	14	1,465	2,940	(s)	483	24	720	279	1,197	7,108	NA	-	-	1,835	-	^R 3,921	-
1993	6,875	14	915	2,952	1	455	25	674	383	1,124	6,529	NA	-	-	1,905	-	4,024	-
1994	6,976	17	1,252	3,234	1	480	26	698	328	1,175	7,195	NA	-	-	2,011	-	4,197	-
1995	7,447	18	791	3,272	(s)	830	25	685	147	1,135	6,885	NA	-	-	1,771	-	3,690	-
1996	6,724	20	911	2,952	1	901	25	575	132	1,297	6,793	NA	-	-	1,835	-	3,820	-
1997	6,466	29	1,241	2,768	1	922	26	450	181	1,289	6,878	NA	-	-	2,076	-	4,312	-

Trillion Btu																		
1960	7.7	20.3	7.5	12.3	0.2	1.0	0.3	15.4	3.3	4.8	44.8	0.0	0.0	0.0	0.4	73.3	1.0	74.3
1965	6.5	20.9	5.3	15.7	0.1	1.0	0.1	13.3	4.0	5.6	45.0	0.0	0.0	0.0	0.8	73.2	2.0	75.1
1970	7.2	16.3	9.3	12.7	0.3	0.8	0.2	12.2	3.5	5.9	44.8	0.0	0.0	0.0	2.5	70.8	6.0	76.8
1975	7.4	14.0	7.0	9.4	0.3	0.7	0.1	11.5	3.6	6.4	39.1	0.0	0.0	0.0	3.4	63.9	8.3	72.2
1980	7.7	2.1	5.0	14.3	0.1	2.5	0.2	8.1	2.0	6.8	38.9	0.0	0.0	0.0	5.4	54.1	13.1	67.1
1985	71.2	7.3	6.9	16.2	(s)	1.2	0.1	5.7	2.8	5.4	38.4	0.0	0.0	0.0	6.8	123.7	15.9	139.6
1986	81.0	7.0	5.8	18.0	(s)	3.5	0.1	4.9	1.9	5.5	39.7	0.0	0.0	0.0	6.4	134.2	14.8	149.1
1987	87.8	8.3	5.9	15.0	(s)	3.7	0.2	5.4	2.0	6.0	38.1	0.0	0.0	0.0	6.3	140.5	14.3	154.8
1988	82.4	8.4	6.3	14.4	(s)	2.6	0.2	4.7	1.9	7.0	37.1	0.0	0.0	0.0	7.1	134.9	16.0	150.9
1989	89.1	8.3	6.1	16.2	(s)	2.7	0.2	4.3	1.7	7.1	38.3	^f 0.0	^f 0.0	^f 0.0	6.9	^f 142.6	15.4	^f 158.0
1990	86.3	11.7	5.4	15.1	(s)	2.3	0.2	4.2	1.9	6.9	36.1	0.0	0.0	0.0	6.0	140.1	13.1	153.2
1991	84.3	17.5	5.2	17.8	(s)	3.1	0.1	4.1	1.9	6.1	38.4	0.0	0.0	0.0	6.0	146.2	13.1	159.3
1992	93.1	15.1	9.7	17.1	(s)	1.8	0.1	3.8	1.8	7.2	41.5	0.0	0.0	0.0	6.3	155.9	13.4	169.3
1993	91.6	15.2	6.1	17.2	(s)	1.6	0.1	3.5	2.4	6.8	37.8	0.0	0.0	0.0	6.5	151.2	13.7	164.9
1994	93.8	18.1	8.3	18.8	(s)	1.7	0.2	3.7	2.1	7.1	41.9	0.0	0.1	0.0	6.9	160.9	14.3	175.2
1995	99.4	18.7	5.2	19.1	(s)	3.0	0.2	3.6	0.9	6.9	38.8	0.0	0.2	0.0	6.0	163.3	12.6	175.9
1996	90.0	20.5	6.0	17.2	(s)	3.3	0.1	3.0	0.8	7.8	38.3	0.0	0.1	0.0	6.3	155.1	13.0	168.2
1997	85.9	30.6	8.2	16.1	(s)	3.3	0.2	2.4	1.1	7.7	39.1	0.0	(s)	0.0	7.1	162.8	14.7	177.5

^a Includes supplemental gaseous fuels.

^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^c "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^e Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

kWh=kilowatthours. --=Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 225. Transportation Energy Consumption Estimates, Selected Years 1960-1997, North Dakota

Year	Coal ^a	Natural Gas ^b	Petroleum								Ethanol ^c	Electricity ^a	Net Energy	Electrical System Energy Losses ^d	Total ^c
			Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	LPG ^a	Lubricants ^a	Motor Gasoline	Residual Fuel ^a	Total				Million Kilowatt-hours	
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatt-hours	Net Energy	Million Kilowatt-hours	Total ^c
1960	9	(s)	66	592	2,103	29	158	4,760	69	7,778	0	0	-	0	-
1965	1	(s)	165	916	2,069	22	147	5,499	25	8,843	0	0	-	0	-
1970	1	(s)	95	1,441	2,074	3	138	6,300	41	10,092	0	0	-	0	-
1975	(s)	(s)	85	1,880	1,855	2	137	7,756	0	11,715	0	0	-	0	-
1980	0	(s)	64	3,795	1,702	12	151	7,553	0	13,278	0	0	-	0	-
1985	0	1	4	3,046	1,682	11	138	7,673	0	12,553	0	0	-	0	-
1986	0	(s)	37	2,894	1,646	23	135	7,584	2	12,320	0	0	-	0	-
1987	0	1	29	3,058	1,254	14	152	7,736	0	12,244	0	0	-	0	-
1988	0	2	32	3,145	1,315	16	147	7,619	0	12,273	0	0	-	0	-
1989	0	2	31	3,056	1,336	18	151	7,518	0	12,110	R ^e 4,968	0	-	0	-
1990	0	2	28	3,116	1,178	14	155	7,282	0	11,774	5,738	0	-	0	-
1991	0	2	28	3,219	964	15	139	7,427	0	11,792	4,549	0	-	0	-
1992	0	3	28	3,238	1,405	16	141	7,477	0	12,305	5,528	0	-	0	-
1993	0	4	62	3,527	1,254	18	144	7,798	0	12,803	6,169	0	-	0	-
1994	0	4	43	4,067	846	20	151	7,679	0	12,805	7,241	0	-	0	-
1995	0	5	65	4,248	333	13	148	7,955	0	12,762	6,753	0	-	0	-
1996	0	5	50	4,363	246	8	144	8,098	0	12,910	5,014	0	-	0	-
1997	0	5	33	4,593	189	8	152	8,168	0	13,142	5,064	0	-	0	-

Trillion Btu															
1960	0.1	(s)	0.3	3.5	11.3	0.1	1.0	25.0	0.4	41.6	0.0	0.0	41.7	0.0	41.7
1965	(s)	(s)	0.8	5.3	11.1	0.1	0.9	28.9	0.2	47.3	0.0	0.0	47.3	0.0	47.3
1970	(s)	(s)	0.5	8.4	11.2	(s)	0.8	33.1	0.3	54.2	0.0	0.0	54.3	0.0	54.3
1975	(s)	0.1	0.4	11.0	10.0	(s)	0.8	40.7	0.0	63.0	0.0	0.0	63.1	0.0	63.1
1980	0.0	0.2	0.3	22.1	9.2	(s)	0.9	39.7	0.0	72.3	0.0	0.0	72.5	0.0	72.5
1985	0.0	0.7	(s)	17.7	9.1	(s)	0.8	40.3	0.0	68.0	0.0	0.0	68.8	0.0	68.8
1986	0.0	0.3	0.2	16.9	8.9	0.1	0.8	39.8	(s)	66.7	0.0	0.0	67.0	0.0	67.0
1987	0.0	1.0	0.1	17.8	6.8	0.1	0.9	40.6	0.0	66.3	0.0	0.0	67.4	0.0	67.4
1988	0.0	1.8	0.2	18.3	7.1	0.1	0.9	40.0	0.0	66.6	0.0	0.0	68.4	0.0	68.4
1989	0.0	1.9	0.2	17.8	7.2	0.1	0.9	39.5	0.0	65.7	R ^e 0.4	0.0	^e 67.6	0.0	^e 67.6
1990	0.0	1.8	0.1	18.2	6.4	0.1	0.9	38.3	0.0	63.9	0.4	0.0	65.7	0.0	65.7
1991	0.0	2.1	0.1	18.8	5.2	0.1	0.8	39.0	0.0	64.0	0.3	0.0	66.1	0.0	66.1
1992	0.0	2.9	0.1	18.9	7.6	0.1	0.9	39.3	0.0	66.8	0.4	0.0	69.6	0.0	69.6
1993	0.0	4.5	0.3	20.5	6.8	0.1	0.9	41.0	0.0	69.5	0.5	0.0	74.1	0.0	74.1
1994	0.0	4.5	0.2	23.7	4.6	0.1	0.9	40.3	0.0	69.8	0.6	0.0	74.3	0.0	74.3
1995	0.0	4.9	0.3	24.7	1.9	(s)	0.9	41.8	0.0	69.7	0.5	0.0	74.6	0.0	74.6
1996	0.0	5.0	0.3	25.4	1.4	(s)	0.9	42.5	0.0	70.5	0.4	0.0	75.5	0.0	75.5
1997	0.0	5.0	0.2	26.8	1.1	(s)	0.9	42.9	0.0	71.8	0.4	0.0	76.8	0.0	76.8

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

^c Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector and is included only once in the total.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

- =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 226. Estimates of Energy Input at Electric Utilities, Selected Years 1960-1997, North Dakota

Year	Coal			Natural Gas ^a	Petroleum				Nuclear Electric Power	Hydroelectric Power ^e	Wood and Waste	Geothermal Energy	Other ^{b,f}	Total ^g
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil ^{b,c}	Light Oil ^{b,d}	Petroleum Coke ^b	Total						
	Thousand Short Tons				Billion Cubic Feet	Thousand Barrels								
1960	1,014	0	1,014	(s)	15	4	0	20	0	1,060	0	0	0	-
1965	964	0	964	(s)	2	1	0	3	0	2,497	0	0	0	-
1970	3,519	0	3,519	(s)	25	7	0	32	0	3,108	0	0	0	-
1975	4,377	0	4,377	(s)	18	2	0	20	0	4,511	0	0	0	-
1980	11,618	0	11,618	(s)	0	68	0	68	0	5,364	0	0	0	-
1985	17,354	0	17,354	(s)	0	74	0	74	0	4,818	0	0	(s)	-
1986	17,291	0	17,291	(s)	0	57	0	57	0	3,304	0	0	(s)	-
1987	17,434	0	17,434	(s)	0	50	0	50	0	3,365	0	0	(s)	-
1988	21,686	0	21,686	(s)	0	46	0	46	0	2,273	0	0	0	-
1989	20,538	0	20,538	(s)	0	72	0	72	0	^R 1,896	0	0	0	-
1990	21,579	0	21,579	(s)	0	57	0	57	0	2,334	0	0	0	-
1991	22,174	0	22,174	(s)	0	69	0	69	0	2,426	0	0	0	-
1992	23,192	0	23,192	(s)	0	58	0	58	0	2,259	0	0	0	-
1993	23,290	0	23,290	(s)	0	69	0	69	0	2,817	0	0	0	-
1994	23,248	0	23,248	(s)	0	112	0	112	0	2,353	0	0	0	-
1995	22,680	0	22,680	(s)	0	99	0	99	0	2,764	0	0	0	-
1996	23,640	0	23,640	(s)	0	155	0	155	0	3,946	0	0	0	-
1997	22,754	0	22,754	(s)	0	153	0	153	0	3,421	0	0	0	-

Trillion Btu														
1960	14.0	0.0	14.0	0.1	0.1	(s)	0.0	0.1	0.0	11.4	0.0	0.0	0.0	25.7
1965	13.4	0.0	13.4	(s)	(s)	(s)	0.0	(s)	0.0	26.1	0.0	0.0	0.0	39.6
1970	48.1	0.0	48.1	0.4	0.2	(s)	0.0	0.2	0.0	32.6	0.0	0.0	0.0	81.3
1975	58.4	0.0	58.4	0.2	0.1	(s)	0.0	0.1	0.0	46.9	0.0	0.0	0.0	105.6
1980	153.8	0.0	153.8	(s)	0.0	0.4	0.0	0.4	0.0	55.7	0.0	0.0	0.0	209.9
1985	228.2	0.0	228.2	(s)	0.0	0.4	0.0	0.4	0.0	50.3	0.0	0.0	(s)	279.0
1986	227.5	0.0	227.5	(s)	0.0	0.3	0.0	0.3	0.0	34.5	0.0	0.0	(s)	262.4
1987	230.2	0.0	230.2	(s)	0.0	0.3	0.0	0.3	0.0	35.1	0.0	0.0	(s)	265.5
1988	285.6	0.0	285.6	(s)	0.0	0.3	0.0	0.3	0.0	23.5	0.0	0.0	0.0	309.3
1989	270.3	0.0	270.3	(s)	0.0	0.4	0.0	0.4	0.0	^R 19.8	0.0	0.0	0.0	291.0
1990	286.4	0.0	286.4	(s)	0.0	0.3	0.0	0.3	0.0	24.3	0.0	0.0	0.0	311.3
1991	293.0	0.0	293.0	(s)	0.0	0.4	0.0	0.4	0.0	25.3	0.0	0.0	0.0	316.5
1992	304.2	0.0	304.2	(s)	0.0	0.3	0.0	0.3	0.0	23.4	0.0	0.0	0.0	^R 329.2
1993	306.0	0.0	306.0	(s)	0.0	0.4	0.0	0.4	0.0	29.0	0.0	0.0	0.0	335.7
1994	306.5	0.0	306.5	(s)	0.0	0.7	0.0	0.7	0.0	24.3	0.0	0.0	0.0	333.8
1995	298.7	0.0	298.7	(s)	0.0	0.6	0.0	0.6	0.0	28.5	0.0	0.0	0.0	328.7
1996	311.9	0.0	311.9	(s)	0.0	0.9	0.0	0.9	0.0	40.8	0.0	0.0	0.0	355.9
1997	298.5	0.0	298.5	(s)	0.0	0.9	0.0	0.9	0.0	35.3	0.0	0.0	0.0	332.8

^a Includes supplemental gaseous fuels.

^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^c Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.

^d Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.

^e If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

^f "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.

^g If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. See data in appendix Table A8.

^R=Revised data.

- =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.